

PacStar 411 HAIPE Sled



PS-411 HAIPE Sled with
KG-250X Installed

PacStar 411 adapts ViaSat[®] high-speed KG-250X and IPS-250X HAIPE IP network encryption (INE) devices to integrate into PacStar 400-Series compact case solutions. The combination creates complete network packages that include HAIPE encryption for secret and top-secret network access, while taking advantage of PacStar 400-Series modularity.

The sled provides snap-in integration for the KG/IPS-250X including:

- Physical adaptation of the INE into the PacStar 400-Series chassis
- 2x 10/100 copper RJ45 Ethernet interfaces, exposed to the front of the sled
- Supports PacStar 400-Series standard interconnect enabling modules to be snapped together in the field to share power
- Locking features front and back, for secure transport

PacStar 411 is designed to work in conjunction with PacStar 400-Series communications modules serving the tactical communications needs of small teams that deploy worldwide and have secure communication requirements in austere environments. PacStar 411 enables teams from U.S. DoD, coalition forces, Homeland Security, first responders, and civilian organizations to easily and securely connect multiple devices to mission-critical communications networks.

KEY FEATURES

- Secures and provides connections for ViaSat KG-250X or IPS-250X HAIPE INE (sold separately)
- Provides Ethernet cabling from the rear of the encryptor to the front of the sled, enabling quick and convenient access for network cabling
- Integrated power connectors provide power from tactical radio batteries, or power input provided by PacStar 400-Series chassis
- Continuous runtime with hot-swappable batteries
- Snap-together design enables quick expansion with other PacStar 400-Series products
- Compact design for flexible packing and transport

Encryption Capabilities

- Up to 200 Mbps (aggregate) crypto
- IPMEIR, Type 1 Suite A and/or Suite B (AES-EFF) cryptography
- Crypto Ignition Key (removal to unclassified CCI), EKMS, unclassified

- classified DGSK, IKEv2/ECDH, software upgradeable to KMI OTN
- HAIPE IS v4.1 compliant with IKEv2
- HAIPE-to-HAIPE over the air/net keying
- Fully F1 compliant with software and key material
- Source authentication and programmability
- Supports multiple Communities of Interest (COIs) and segregation via exclusion keys

Networking Capabilities

- Embedded OSPF and PIM routing
- Multicast video on demand
- Embedded TCP/IP accelerator (xPeP)
- Browser-based HMI configurations

Physical Specifications

- Dimensions 5.67" x 10.12" x 1.73"
- Weight 3.6 lbs. (with KG-250X)
- Supports PacStar 400-Series standard interconnect enabling modules to be snapped together in the field to share power
- Fanless design for quiet operation,

- higher reliability, and low power draw
- Operational temperature -40C to 60C
- Viasat KG-250X extensively tested to MIL-STD 810 by independent labs. Reports available on request. For more information, see: pacstar.com/testing/

Power Specifications

- Battery snap-together connectors for 1-2 each AN/PRC-152/148 snap-on radio batteries; hot-swappable with 5+ hours runtime per battery
- Wide-range DC input, 12-28V
- Worldwide AC power input (with optional AC adapter)
- Power draw: Nominal 14 watts total

Connectors

- (2) RJ45 (10/100 Base-T Ethernet) (1) encrypted, (1) unencrypted
- Wide-range DC input via PacStar 400-Series standard power interconnectors w/radio battery compatibility

PacStar products are covered by multiple patents. Additional patent(s) pending. See www.pacstar.com/patents for details.